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Printed in United States | 6/13

Intelligence in Motion

AUTODOME 7000 Intelligent Tracking Cameras

BOSCH
Invented for life

AUTODOME 7000 IP and HD cameras combine advanced intelligence with maximum streaming flexibility and high resolution video for powerful surveillance capabilities.

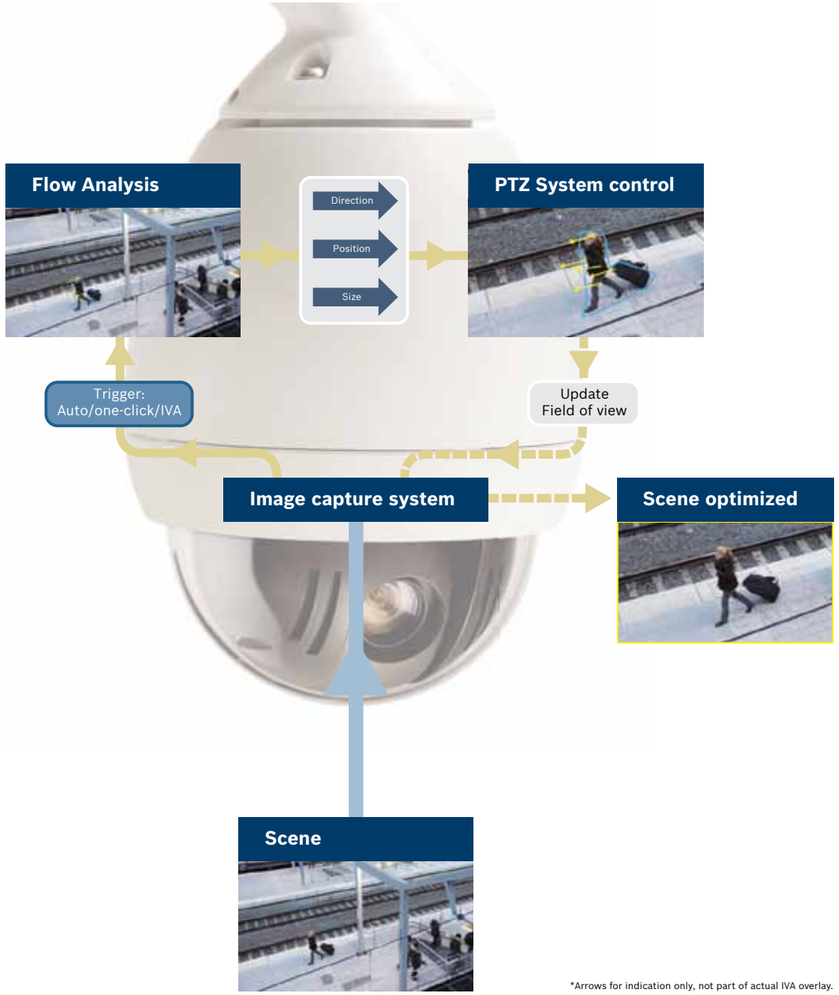
Advanced intelligence

Enhanced Intelligent Video Analysis (IVA) capabilities allow the cameras to offer robust rule-based Intelligent Tracking in addition to standard IVA features like loitering, line crossing and more.

While at a preset shot, AUTODOME continuously analyzes video for moving objects based on pre-defined alarm rules. Intelligent Tracking can be triggered automatically if any of the IVA alarm conditions are met. Additionally, operators can simply click on a moving target, and Intelligent Tracking will take over PTZ control to keep the subject in focus until overridden by an operator action.

Simultaneous streaming for flexible viewing

AUTODOME 7000 uses the latest Bosch firmware design, which allows flexible quad-streaming capabilities. The AUTODOME 7000 HD can deliver a high resolution HD stream (1080p30 or 720p60) and scaled-down H.264 and JPEG streams simultaneously. This allows the camera to be configured for full resolution local monitoring and recording as well as reduced resolution for bandwidth-friendly remote viewing.



*Arrows for indication only, not part of actual IVA overlay.

Intelligent Tracking uses the enhanced processing power of the AUTODOME 7000 platform. The enhanced flow detection and IVA algorithms track moving objects even when they are temporarily hidden behind scene obstructions or when other background noise is present.

When important objects—such as people and vehicles—are being followed, the groundbreaking Intelligent Tracking algorithm dynamically retunes settings to ensure the most useful, highly detailed images of objects of interest are followed. You get reliable performance without human intervention.

Precise, high-speed motion control and zoom

Sharp video of moving objects

Clear images from both bright and dark areas in the same scene

Accurate colors in challenging lighting conditions

High-resolution optics

Choose a high resolution camera module (2MP / 1080p30) or a high sensitivity, low noise 4CIF/D1 camera module. High definition models deliver 20x zoom, while standard definition cameras offer 28x or 36x optical zoom. Modules deliver precise, high-speed 360-degree rotation for increased monitoring range. High performance, progressive scan digital imaging provides sharp video even when moving objects are present, and wide dynamic range technology captures important details in bright and dark areas.

For applications with fast moving objects, the HD module can be configured in 720p60 mode to allow the camera to capture fast motion in gaming centers and traffic surveillance, as well as for number plate capture and other applications without any motion artifacts.

HD video available – Everywhere

AUTODOME 7000 HD delivers outstanding image quality at all times in the most challenging lighting conditions. Day/Night functionality provides enhanced IR sensitivity for clear images in low light, while a Sodium Vapor White Balance mode enables the cameras to restore images of objects to their original color when affected by street or tunnel lamps.

HD Security Breakthrough – through the bandwidth barrier

Extending the possibilities for limited-bandwidth remote monitoring. AUTODOME 7000 cameras with Bosch's Dynamic Transcoding Technology ensure you can view your images immediately – anytime, anywhere.

HD video is changed into a lower resolution stream, allowing seamless browsing through recordings. The original image quality is fully restored whenever the image is paused. You get fast streaming even over limited bandwidth internet connections and full HD images in paused frames.

Multiple software and recording options

For small systems, you can record on a suitable SD card installed inside the camera or centrally on a direct-to-iSCSI storage system without the need for any additional network video recorder software or server. For systems with more advanced requirements, cameras can be configured to record on an enterprise storage system with Bosch Video Recording Manager (VRM).

Bosch IP standard- and high-definition cameras, encoders and analytics work seamlessly with a wide range of security software and recording solutions from Bosch and other industry providers. Through ONVIF conformance—the open availability of Bosch video software development kits—and a team dedicated to special integration and support projects, it is easy to manage Bosch video products within your system design.

Durable performance

Subject to the industry's most demanding endurance tests, AUTODOME cameras deliver years of dependable operation in both indoor and outdoor applications. With a heavy-duty, tamper-resistant aluminum housing that is rated to IP66, AUTODOME cameras provide uncompromised functionality even in dusty and wet environments.

The AUTODOME 7000 family supports High Power over Ethernet (HPoE) in addition to standard 24VAC power supplies. The installer can choose to connect the camera to both power sources simultaneously for improved system reliability. If one power supply fails, the other will take over.

Ease of installation and use

Quick start-up and a user-friendly interface make onsite installation simple, while Power over Ethernet capability means no additional power supplies or wiring are needed. Pre-configured user modes, such as low light and traffic, provide optimal camera performance at the click of a button.

The cameras also come with Bosch Video Client (BVC) software, allowing easy live viewing, playback, forensic search and export. Up to 16 cameras can be configured and operated free of charge while a license upgrade supports up to 128 cameras.

Bi-directional audio

High-quality bi-directional audio over IP allows AUTODOME 7000 to interface with suitable audio transmission equipment for two-way communication between the camera and VMS/decoder sites or to a public address system for notifying people in a camera scene.

Features	Benefits
Built-in Intelligent Tracking and Intelligent Video Analysis	Transforms cameras into powerful automated detectors and trackers
Quad-streaming	Independent video streams allow viewing and recording at different quality levels
Local recording using SDXC or SDHC cards	Supports local recording up to 2 TB with SDXC and enhances reliability of centralized storage
2 MP / 1080p HD with 20x zoom or 4CIF/D1 with 36x or 28x zoom	Superior image quality and increased monitoring range
256 preset positions with high-speed PTZ mechanism	Smooth motion between positions at both fast and slow speeds
Power over Ethernet	No additional power cabling needed
Support for the common firmware platform	One firmware release for multiple camera platforms for easier system installation and maintenance
Fiber optic kit	Unique media converter module allows for easy installation